

This listing of the claims will replace all prior versions and listings of the claims in the application.

Listing of the Claims:

1. (Currently Amended) An apparatus for moving a door (60) of a vehicle (62) between a first position and a second position, the apparatus comprising:

 a fluid cylinder (16) and a piston (18) adapted to be operatively connected to the door and the vehicle, wherein the piston has a first position and a second position with respect to the fluid cylinder;

 a supply of gas generating chemicals (24); and

 an initiator (26) for initiating said gas generating chemicals (24) to cause said chemicals to rapidly generate a supply of gas and to supply said generated gas to said fluid cylinder (16) to move said piston (18) between said first and second positions to effect movement of the door operatively connected thereto, said initiator comprises a bridge wire (80) that when energized effects ignition of said supply of gas generating chemicals (24) to rapidly generate a predetermined volume of gas.

2. (Currently Amended) An apparatus as defined in claim 1 for moving the door (60) of a vehicle (62), further including first and second linkage assemblies (27, 65) one of which being adapted to interconnect[[s]] said fluid cylinder to either the vehicle or the door and the other of which being adapted to interconnect[[s]] said piston (18) to the other of either the door or the vehicle, said first and second linkage assemblies cooperating with said door; piston (18) and fluid cylinder (16) to move said for moving the door between said first and second positions in response to initiation of said supply of gas generating chemicals (24).

3. (Previously Presented) An apparatus for moving the door of a vehicle as defined in claim 1, wherein said gas generating chemicals comprises a solid chemical which when activated generates a predetermined volume of gas in a predetermined time period which is dependent on the composition of said gas generating chemical, the volume of said gas generating chemical and the shape of said gas generating chemical.

Claim 4. (Canceled)

5. ((Currently Amended)) An apparatus for moving the door of a vehicle as defined in Claim 1[[4]], further comprising a source of energy for energizing said bridge wire (80), said source of energy includes a piezo-electric device (90) connected to said bridge wire (80), said piezo-electric device when actuated generating a sufficient amount of electrical energy to energize said bridge wire to effect ignition of said supply of gas generating chemicals (24) to generate said predetermined volume of gas to move said fluid cylinder (16) and piston (18) between said first and second positions.

6. (Currently Amended) An apparatus for moving the door of a vehicle as defined in Claim [[1]] 8, wherein said initiator for initiating said supply of gas generating chemicals (24) includes an explosive primer (100) for effecting ignition of said supply of gas generating chemicals, said primer when detonated effecting ignition of said supply of gas generating chemicals to generate a predetermined volume of gas to move said ~~fluid cylinder~~ and piston between said first and second positions.

7. (Currently Amended) An apparatus for moving the door of a vehicle as defined in Claim 1, wherein said initiator (26) is disposed in close proximity to said supply of gas generating chemicals (24) and a device for activating said initiator, and wherein energization of said device actuates said initiator which rapidly ignites said supply of gas generating chemicals to generate a sufficient amount of gas to move said fluid cylinder and piston between said first and second positions ~~to effect movement of the door between its first and second positions.~~

8. (Currently Amended) An apparatus for moving the door of a vehicle ~~between first and second positions as defined in Claim 1, further including, the apparatus comprising:~~

a fluid cylinder (16) and a piston (18) adapted to be operatively connected to the door and the vehicle, wherein the piston has a first position and a second position with respect to the fluid cylinder;

a supply of gas generating chemicals (24);

an initiator (26) for initiating said gas generating chemicals (24) to cause said chemicals to rapidly generate a supply of gas and to supply said generated gas to said fluid cylinder (16) to move said piston (18) between said first and second positions to effect movement of the door operatively connected thereto; and

a safe and arm mechanism (32) disposed between said initiator and said supply of gas generating chemicals (24), said safe and arm mechanism including an arming member (36) having a safe position in which said arming member is interposed between said initiator and said supply of gas generating chemicals to prevent initiation of said supply of gas generating chemicals if said initiator is activated, and an armed position in which said arming member (36) facilitates ignition initiation of said supply of gas generating chemicals upon activation of said initiator to generate sufficient gas to move said fluid cylinder (16) and piston (18) between said first and second positions to effect movement of the door between its first and second positions.

Claim 9. (Canceled)

10. (Previously Presented) An apparatus for moving the door of a vehicle as defined in Claim 1, wherein said supply of gas generated by said gas generating chemicals is inert.

11. (Currently Amended) An apparatus for moving the door of a vehicle as defined in Claim [[1]]8, wherein said initiator (26) includes first (28) and second (30) spaced apart portions of a readily ignitable material, said second portion (30) being disposed in close proximity to said supply of gas generating chemicals (24) and being operable to ignite said supply of gas generating chemicals when said first portion (28) of said readily ignitable material is ignited and when ~~an~~ the arming member (36) is in ~~an~~ the armed position.

12. (Previously Presented) An apparatus for moving the door of a vehicle as defined in Claim 8, wherein said arming member (36) has a passageway therein which provides for fluid communication between first (28) and second portions (30) of said readily ignitable material of said initiator (26) when said arming member is in said armed position and which prevents fluid communication between said first and second portions of said readily ignitable material of said initiator when said arming member is in said safe position.

Claims 13 and 14. (Canceled)

15. (Previously Presented) An apparatus for moving a door of a vehicle ~~between one of two positions~~, the apparatus including a supply of gas generating chemicals, and an initiator for initiating said gas generating chemicals to cause said chemicals to generate a supply of gas and means to supply said generated gas to a rotary actuator, wherein ~~said rotary actuator being adapted to move rotary motion causes said door to move from a first position to a second position.~~

16. (Currently Amended) An apparatus for moving a door of a vehicle ~~between~~ according to Claim 15 wherein said rotary actuator being adapted to move the door between closed and open states in which either the first position is closed and a second position is an open position, or the first position is an open door position and the second position is a closed door position.

17. (New) An apparatus for moving a door of a vehicle according to Claim 1 wherein the fluid cylinder and the piston are adapted to be operatively connected to move the door from a closed state to an open state.

18. (New) An apparatus for moving a door of a vehicle according to Claim 1 wherein the fluid cylinder and the piston are adapted to be operatively connected to move the door from an open state to a closed state.

19. (New) An apparatus for moving the door of a vehicle as defined in Claim 8, wherein said initiator (26) is disposed in close proximity to said supply of gas generating chemicals (24) and a device for activating said initiator, and wherein energization of said device actuates said initiator which rapidly ignites said supply of gas generating chemicals to generate a sufficient amount of gas to move said piston between said first and second positions.